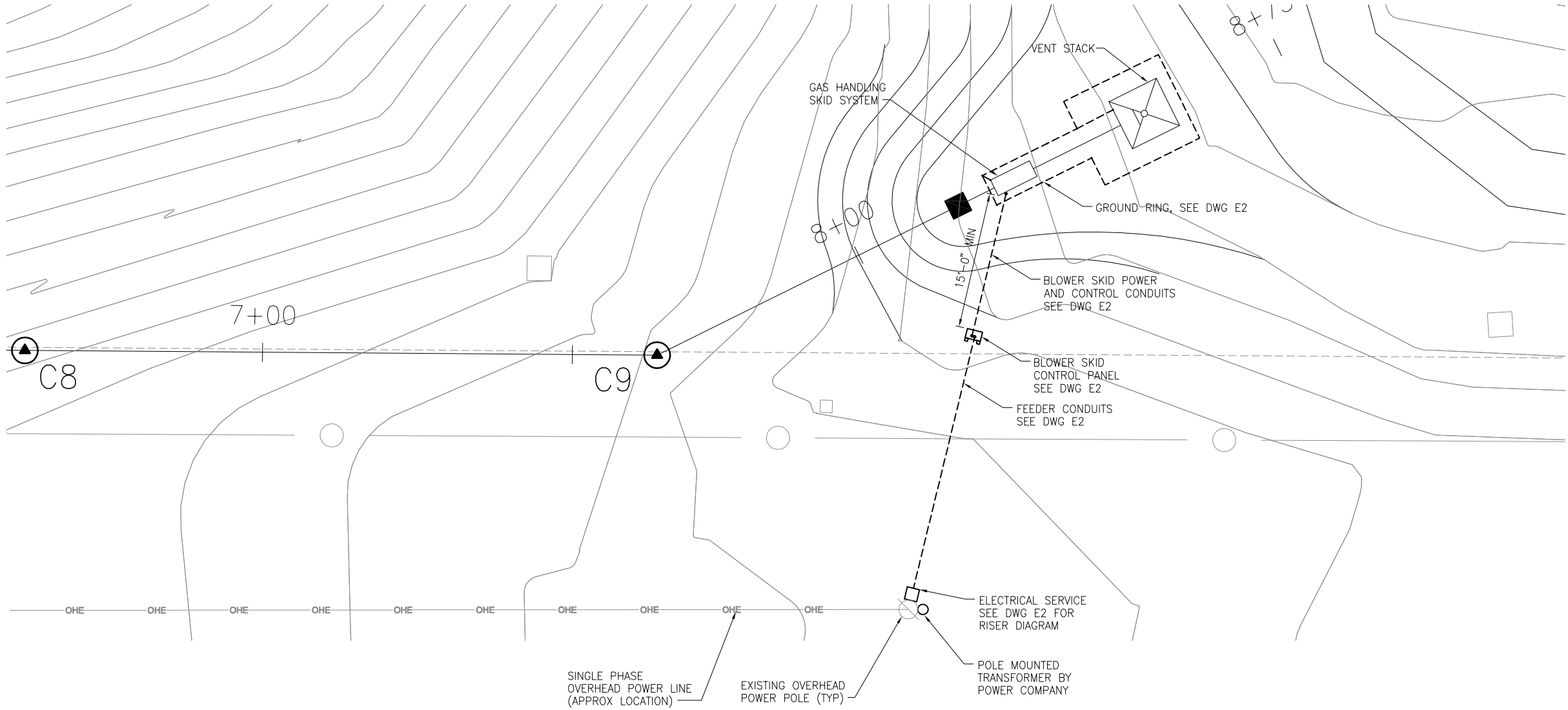


Plotted: 2/11/10 3:20pm LMiller

LAST SAVED: 2/11/2010 3:17 PM L MILLER



NOTE
ACTUAL POWER LINE AND POLE LOCATION MAY VARY FROM LOCATION SHOWN ON THIS DRAWING. FIELD LOCATE ELECTRICAL SERVICE TO NEAREST UTILITY POWER POLE.

LTR.	DATE	REVISIONS	BY	APPRD.	CHECKED

DESIGNED	KLK
DRAWN	ABG
CHECKED	MLK



**LADY LAKE LANDFILL
ACTIVE GAS COLLECTION SYSTEM
LAKE COUNTY, FLORIDA**

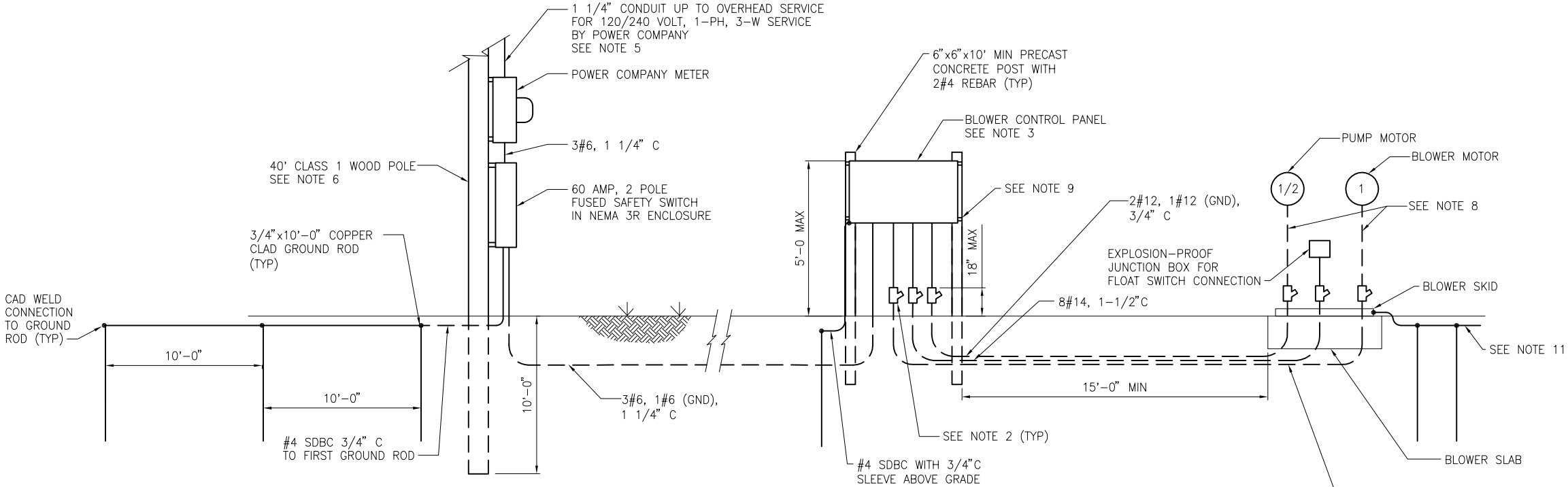
ELECTRICAL SITE PLAN

CERTIFICATE OF AUTHORIZATION #1841 APPROVED BY MALCOLM L. KOROS P.E. # 63622	DATE JULY 2009 SCALE 1"=10'	PROJECT NO. 12090-025-01 DWG. NO. E1
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BID DOCUMENTS

Plotted: 2/11/10 3:20pm LMiller

LAST SAVED: 2/11/2010 3:18 PM L MILLER



ELECTRICAL RISER DIAGRAM

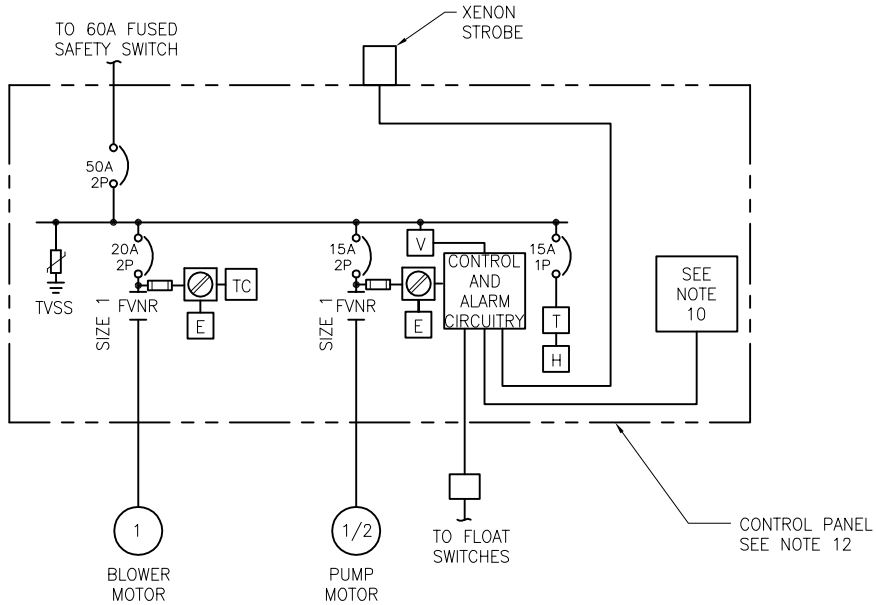
NTS

NOTES

1. UNLESS OTHERWISE NOTED, CONDUITS SHALL BE PVC COATED RIGID GALVANIZED STEEL (RGS) CONDUIT. EXCEPT FOR CONDUITS BETWEEN THE CONTROL PANEL AND THE BLOWER SKID, THE PORTIONS OF UNDERGROUND CONDUITS NOT LOCATED WITHIN 2' HORIZONTALLY OF WHERE THE CONDUIT EXITS THE GROUND MAY BE SCH 80 PVC.
2. CONDUIT SEALS SHALL BE PROVIDED TO ALL CONDUITS ENTERING THE CONTROL PANEL FROM THE GAS HANDLING SKID.
3. BLOWER CONTROLS SHALL BE HOUSED IN A NEMA 4X STAINLESS STEEL CONTROL PANEL. REFER TO SECTION 15575-LANDFILL GAS BLOWER ASSEMBLY FOR CONTROL PANEL REQUIREMENTS.
4. POWER WIRING SHALL BE TYPE XHHW. CONTROL PANEL WIRING SHALL BE TYPE MTW.
5. PROVIDE WEATHERHEAD AND DRIP LOOP AT TOP OF POLE AS REQUIRED FOR SERVICE ENTRANCE CONDUCTORS.
6. FOR POLE LOCATION SEE DWG C2. PROVIDE DOWN GUY AND ANCHOR ON POLE AS REQUIRED TO SUPPORT OVERHEAD LINES.
7. TVSS SHALL MEET UL 1449 STANDARD. PEAK LET THROUGH SHALL NOT BE MORE THAN 800 VOLTS L-N AND 800 VOLTS N-G. TVSS SHALL BE MANUFACTURED BY ADVANCED PROTECTION TECHNOLOGIES, INC.
8. TRANSITION TO LIQUID TIGHT FLEXIBLE CONDUIT BETWEEN CONCRETE SLAB AND MOTOR.
9. STAINLESS STEEL UNISTRUT FASTENED TO CONCRETE POST WITH STAINLESS STEEL 1/2" ALL-THREAD EXTENDING THROUGH CONCRETE POST. ALL HARDWARE SHALL BE 304 OR 316 STAINLESS STEEL.
10. AUTO-DIALER TO BE INCLUDED WITHIN CONTROL PANEL, BUT NOT CONNECTED TO TELEPHONE LINE INITIALLY.
11. PROVIDE #2/0 BARE COPPER GROUND RING AROUND BLOWER SKID AND VENT STACK. PROVIDE A 3/4"x10' COPPER CLAD GROUND ROD EVERY 10' AROUND THE PERIMETER OF THE GROUND LOOP. ATTACH THE GROUND LOOP TO THE BLOWER SKID AND THE VENT STACK.
12. THE CONNECTED LOAD FOR THE SERVICE IS 5.1 KVA.

LEGEND

SYMBOL	DESCRIPTION
	ELAPSED TIME METER
	SINGLE PHASE VOLTAGE MONITOR
	SPACE HEATER
	THERMOSTAT
	TIME CLOCK, 24 HOUR
	TRANSIENT VOLTAGE SURGE SUPPRESSOR (TVSS) SEE NOTE 7
	HAND-OFF-AUTO SELECTOR SWITCH
	FULL VOLTAGE NON-REVERSING STARTER (NEMA SIZE AS INDICATED)
	GROUND CONNECTION
	THERMOSTAT
	CIRCUIT BREAKER, (TRIP AMPS INDICATED), 3 POLE UNLESS OTHERWISE INDICATED
	RELAY CONTACT N.O.
	RELAY CONTACT N.C.
	ON-OFF HAND SWITCH
	MOTOR STARTER COIL
	OVERLOAD CONTACTS
	CONDUIT SEAL
	MOTOR, HORSEPOWER INDICATED
	FUSE
SDBC	SOFT DRAWN BARE COPPER



CONTROL PANEL ONE-LINE DIAGRAM

NTS

					DESIGNED	<u>KLK</u>
					DRAWN	<u>ABG</u>
					CHECKED	<u>MLK</u>
LTR.	DATE	REVISIONS		BY	APPRD.	



LADY LAKE LANDFILL
ACTIVE GAS COLLECTION SYSTEM
LAKE COUNTY, FLORIDA

ELECTRICAL DETAILS

CERTIFICATE OF AUTHORIZATION #1841	DATE	PROJECT NO.
APPROVED BY	JULY 2009	12090-025-01
MALCOLM L. KOROS	SCALE	DWG. NO.
P.E. # 63622	AS NOTED	E2

BID DOCUMENTS